

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	("(PLL"phaselockloop")and@ad<=20001220").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 10:44
S2	38328	(PLL "phaselockloop") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 16:10
S3	45830	(PLL "phase lock loop") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 14:18
S4	541	(PLL "phase lock loop") with (PFD "phase frequency detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 14:18
S5	292	(PLL "phase lock loop") with (PFD "phase frequency detector") with (VCO "voltage controlled oscillator") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 10:45
S6	108	(PLL "phase lock loop") with (PFD "phase frequency detector") with (VCO "voltage controlled oscillator") with ("loop filter") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 14:20
S7	0	(PLL "phase lock loop") with (PFD "phase frequency detector") with (VCO "voltage controlled oscillator") with ("loop filter") with ("phase shifter")and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 14:21
S8	1	(PLL "phase lock loop") with (PFD "phase frequency detector") with (VCO "voltage controlled oscillator") with ("loop filter") same ("phase shifter")and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/24 13:55

## EAST Search History

S9	3	(PLL "phase lock loop") with (PFD "phase frequency detector") with (VCO "voltage controlled oscillator") with ("loop filter") and ("phase shifter")and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 14:55
S10	2	("5,412,349").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/07 15:04
S11	2	("6319613").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/07 15:22
S12	2	("6319631").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/07 15:24
S13	37	Rosenschein.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 15:24
S14	1	(PLL "phase lock loop") same (PFD "phase frequency detector") same (VCO "voltage controlled oscillator") with ("loop filter") same ("phase shifter")and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 15:40
S15	1	(PLL "phase lock loop") same (PFD "phase frequency detector") same (VCO "voltage controlled oscillator") same ("loop filter") same ("phase shifter")and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 15:41
S16	2	(PLL "phase lock loop") same (PFD "phase frequency detector") same (VCO "voltage controlled oscillator") same ("phase shifter")and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 15:50

## EAST Search History

S17	3	(PLL "phase lock loop") and (PFD "phase frequency detector") same (VCO "voltage controlled oscillator") same ("phase shifter") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 16:09
S18	0	("dll").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/07 16:09
S19	2	("5412349").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/07 16:10
S20	827	(PLL "phase lock loop") and (DLL "delay lock loop") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 16:11
S21	610	(PLL "phase lock loop") same (DLL "delay lock loop") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 16:11
S22	27	(PLL "phase lock loop") with (DLL "delay lock loop") with ("phase detector" "phase frequency detector" PFD) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 16:13
S23	1	(PLL "phase lock loop") with (DLL "delay lock loop") with ("phase detector" "phase frequency detector" PFD) with ("phase shifter") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 16:14
S24	1	(PLL "phase lock loop") same ((DLL "delay lock loop") with ("phase detector" "phase frequency detector" PFD) with ("phase shifter")) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 16:14

## EAST Search History

S25	2	(PLL "phase lock loop") same ((DLL "delay lock loop") same ("phase detector" "phase frequency detector" PFD) same ("phase shifter")) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:06
S26	60	("first-in-first-out" FIFO) with ("phase detector" PD PFD) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:08
S27	1	("first-in-first-out" FIFO) with (PISO "parallel-in serial out") with ("phase detector" PD PFD) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:09
S28	1	("first-in-first-out" FIFO) same (PISO "parallel-in serial out") same ("phase detector" PD PFD) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:09
S29	1	(PISO "parallel-in serial out") same ("phase detector" PD PFD) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:15
S30	534	(PISO "parallel-in-serial-out") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:16
S31	774350	(PISO "parallel-in-serial-out") with phase detector and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:16
S32	1	(PISO "parallel-in-serial-out") with ("phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:16

## EAST Search History

S33	1	(PISO "parallel-in-serial-out") same ("phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:17
S34	14	(PISO "parallel-in-serial-out") and ("phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:23
S35	25	(PISO "parallel-in-serial-out") same (FIFO "first-in-first-out") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:24
S36	25	(PISO "parallel-in-serial-out") same (FIFO "first-in-first-out") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:24
S37	2	(PISO "parallel-in-serial-out") same (FIFO "first-in-first-out") and (DLL PLL) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:43
S38	1	(PISO "parallel-in-serial-out") same (FIFO "first-in-first-out")same (phase with detect\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:43
S39	1	(PISO "parallel-in-serial-out") and (FIFO "first-in-first-out")same (phase with detect\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:44
S40	206	(FIFO "first-in-first-out")same (phase with detect\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:44

## EAST Search History

S41	89	(FIFO "first-in-first-out")with (phase with detect\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:44
S42	23	(FIFO "first-in-first-out")with ("phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:47
S43	4	((FIFO "first-in-first-out") near1 register) with ("phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:49
S44	4	((FIFO "first-in-first-out") near4 register) with ("phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:49
S45	6	((FIFO "first-in-first-out") near4 register) same ("phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:05
S46	61	("digital delay lock loop" DDLL) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:05
S47	0	("digital delay lock loop" DDLL) and plesiochronous and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:06
S48	0	("digital delay lock loop" DDLL) and plesiochr\$5 and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:06

## EAST Search History

S49	9	("digital delay lock loop" DDLL) and Pll and DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:07
S50	0	("digital delay lock loop" DDLL) and Pll and DLL and fifo and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:07
S51	0	("digital delay lock loop" DDLL) and Pll and DLL and "first-in-firt-out" and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:07
S52	562	Pll same DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:27
S53	10	Pll same DLL with (loop adj1 filter) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:52
S54	10	Pll same (DLL with (loop adj1 filter)) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:36
S55	0	(DDLL with retim\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:52
S56	0	(DDLL with re-tim\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:52

## EAST Search History

S57	0	(DDLL same re-tim\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:52
S58	2	(DLL same re-tim\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:53
S59	61	(DDLL "digital delay lock loop") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:53
S60	0	(DDLL "digital delay lock loop") same (re-tim\$4 retim\$4) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:54
S61	0	(DDLL "digital delay lock loop") and (re-tim\$4 retim\$4) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 17:54
S62	22	(DDLL "digital delay lock loop") with input\$3 and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:20
S63	14	(DDLL "digital delay lock loop") with tim\$3 and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:15
S64	2	("6744787").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 18:20



## EAST Search History

S65	4056	(SIPO "serial-in-paralled-out")and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:42
S66	40	(SIPO "serial-in-paralled-out") and FIFO and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:21
S67	2	(SIPO "serial-in-paralled-out") and FIFO and deserializer and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:22
S68	6	(SIPO "serial-in-paralled-out") with deserializer and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:24
S69	2	(SIPO "serial-in-paralled-out") with FIFO with (PISO "parallel-in-serial-out") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:40
S70	2	("5,412,349").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 18:41
S71	2	("6,081,572").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 18:41
S72	2	("6,194,929").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 18:41

## EAST Search History

S73	1678	"local reference" and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:42
S74	66	"local reference" with "phase detector" and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:43
S75	0	"local reference" with "phase detector" with PLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:43
S76	0	"local reference" with ("phase detector" PFD) with PLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:44
S77	1	"local reference" with ("phase detector" PFD) same PLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 18:45
S78	5	"local reference" same ("phase detector" PFD) same PLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:03
S79	89	"local reference" same ("phase detector" PFD) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:03
S80	3	"local reference" same ("phase detector" PFD) and (suppress\$3 with noise) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:11

## EAST Search History

S81	0	(DDL with recover\$4) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:12
S82	8	(FIFO with level1) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:13
S83	1870	(FIFO with level\$1) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:13
S84	4	(FIFO with level\$1)with PLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:13
S85	1	(FIFO with level\$1)with DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:13
S86	5	(FIFO with level\$1) same DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:14
S87	4	(FIFO near3 level\$1) same DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 19:28
S88	2	("20020138758").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 19:30

## EAST Search History

S89	2	("20020138281").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 19:31
S90	2	("20020055878").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 19:33
S91	2	("6535294").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 19:34
S92	2	("6418467").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 19:34
S93	539	(PLL "phase lock loop") with (DLL "delay lock loop") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 10:56
S94	23	(FIFO with level with filter\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 10:58
S95	18	(FIFO with level with filter\$3) and references and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:11
S96	3	(FIFO with level with filter\$3) and local with references and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 10:58

## EAST Search History

S97	436	(VCO with "phase noise") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:11
S98	26	(VCO with "phase noise" with suppress\$3) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:12
S99	0	(VCO with "phase noise" with suppress\$3 with "phase shift") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:13
S10 0	0	(VCO with "phase noise" with suppress\$3 with (phase near3 shift\$3)) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:13
S10 1	0	(VCO same "phase noise" with suppress\$3 with (phase near3 shift\$3)) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:13
S10 2	112476	(VCO same "phase noise" with suppress\$3 wsame (phase\$1 near3 shift\$3)) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:13
S10 3	1	(VCO same "phase noise" with suppress\$3 same (phase\$1 near3 shift\$3)) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:14
S10 4	2	(VCO same "phase noise" same suppress\$3 same (phase\$1 near3 shift\$3)) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:29

## EAST Search History

S10 5	680	(seriali\$3 with clock\$1) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:30
S10 6	180	(deseriali\$3 with clock\$1) and d and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:30
S10 7	270	(deseriali\$3 with clock\$1)and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:31
S10 8	84	(deseriali\$3 with clock\$1 with recover\$3)and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:32
S10 9	47	(deseriali\$3 with clock\$1 with recover\$3) and (synchron\$4 with clock\$1) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:33
S11 0	42	(deseriali\$3 with clock\$1 with recover\$3) and (synchron\$4 with clock\$1) and seriali\$4 and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:33
S11 1	0	(deseriali\$3 with clock\$1 with recover\$3) and (synchron\$4 with clock\$1) and seriali\$4 and DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:34
S11 2	0	(deseriali\$3 with clock\$1 with recover\$3) and (synchron\$4 with clock\$1) and seriali\$4 and (digital near2 DLL) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 11:34

## EAST Search History

S11 3	1	(deseriali\$3 with clock\$1 with recover\$3) and (synchron\$4 with clock\$1) and seriali\$4 and (digital with DLL) and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:09
S11 4	23	(FIFO with "phase detector") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:50
S11 5	2	("Loop filter" with "wideband filter") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:22
S11 6	5	((Loop near4 filter\$4) with "wideband filter") and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:23
S11 7	2	((Loop near4 filter\$4) with "wideband filter") and narrowband and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:34
S11 8	2	("6901126").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 12:34
S11 9	0	serializer with plesiochoronous and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:50
S12 0	0	serializer same plesiochoronous and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:51

## EAST Search History

S12 1	0	serializer and plesiochronous and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:51
S12 2	1618	serializer and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:52
S12 3	613	plesiochronous and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:51
S12 4	22	plesiochronous and S122 and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 13:07
S12 5	0	serializer same plesiochronous and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 12:52
S12 6	2	("6,901,126").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 12:55
S12 7	2	("6,081,572").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 12:56
S12 8	2	("6,194,929").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 12:56



## EAST Search History

S12 9	2	("6744787").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 12:56
S13 0	8126	translat\$3 with digital and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 13:07
S13 1	0	translat\$3 with digital with DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 13:08
S13 2	0	translat\$3 with digital same DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 13:08
S13 3	57	translat\$3 with digital and DLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 13:08
S13 4	20105514	translat\$3 with digital and DLL and PLLand @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 13:08
S13 5	12	translat\$3 with digital and DLL and PLL and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 13:08
S13 6	2	Schumid.inv. and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 14:00

## EAST Search History

S13 7	3	Schimid.inv. and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 14:04
S13 8	2	("6725291").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:03
S13 9	2	("6752291").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:03
S14 0	2	("6275291").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:03
S14 1	2	("6725219").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:03
S14 2	2	("6725129").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:03
S14 3	127	SIPO and PISO and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 14:05
S14 4	0	SIPO and PISO and schimid and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 14:05

## EAST Search History

S14 5	0	SIPO near shift and PISO and schimid and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 14:05
S14 6	0	SIPO with shift and PISO and schimid and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 14:19
S14 7	3	("6,718,321").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:19
S14 8	2	("20040205550").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:20
S14 9	2	("20030084120").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:22
S15 0	2	("20020087628").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:24
S15 1	3	("6807559").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 14:24
S15 2	814	327/156.ccls. and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/24 13:56

## EAST Search History

S15 3	814	327/156.ccls. and @ad<="20001220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/24 13:57
----------	-----	--------------------------------------	---	----	----	------------------